

## Product datasheet for **RG238883**

### ETFDH (NM\_001281738) Human Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                         |
| Product Name:             | ETFDH (NM_001281738) Human Tagged ORF Clone |
| Tag:                      | TurboGFP                                    |
| Symbol:                   | ETFDH                                       |
| Synonyms:                 | ETFQO; MADD                                 |
| Mammalian Cell Selection: | Neomycin                                    |
| Vector:                   | pCMV6-AC-GFP (PS100010)                     |
| E. coli Selection:        | Ampicillin (100 ug/mL)                      |



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**ORF Nucleotide Sequence:**

>RG238883 representing NM\_001281738.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```

GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGAAAGGTTTGCAGAAGAAGCAGATGTTGTAATAGTTGGTGCAGGCCCTGCAGGGCTCTCTCGAGCT
GTTTCGTCTAAAACAGTTGGCTGTGGCAGATGAAAAGGACATCCGTGTGTCTAGTGGAGAAAGCTGCC
CAGATAGGAGCTCACTCTCTCAGGGGCTTGCCTTGATCCAGGTGCTTTTAAAGAACTCTCCAGAC
TGGAAAGAGAAGGGGCTCCACTTAACACTCCTGTAACAGAAGACAGATTTGGAATTTTAAACAGAGAAA
TACAGAATTCCTGTGCCAATCTTCCAGGGCTTCCAATGAATAATCATGGCAATTACATTGTACGCTTG
GGACATTTAGTGAGCTGGATGGGCGAACCAAGCAGAAGCCCTTGGTGTGAAGTATACCCTGGTTATGCA
GCTGCTGAGGTCCTTTTTCATGATGATGGTAGTGTAAAAGGAATTGCCACTAACGATGTAGGATACAA
AAGGATGGTGCACCAAGGCAACATTTGAGAGAGGACTGGAACACATGCTAAAGTCACAATTTTTCGA
GAAGTTGCCATGGACATCTAGCCAAGCAACTATAAAGAAGTTTGATTTGAGAGCAAATTTGAACTT
CAAACCTACGGGATTGGACTGAAGGAGTTATGGGTTATTGATGAAAAGAAGTGGAAACCTGGGAGAGTA
GATCACACTGTTGGTTGGCCCTTGGACAGACATACCTATGGAGGATCTTCTCTATCATTGGAATGAA
GGTGAACCCCTAGTAGCTCTTGGTCTTGTGGTGGTCTAGACTATCAGAATCCATACCTGAGTCCATTT
AGAGAGTTCCAAAGGTGGAAACACCATCCTAGCATTTCGGCCAACCTTGGAAAGGTGAAAAAGGATTGCA
TACGGAGCCAGAGCTCTCAATGAAGGTGGCTTTCAGTCTATACCAAAACTCACCTTCTGGTGGTTTA
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GGAATTTTAGCAGCAGAATCTATTTTAACTCAACTAAGTGTAAAAGTCTCCAATCAAAGACAATAGGA
CTCCATGTAAGTGAATATGAGGACAATTTGAAGAACTCATGGGTATGAAAGAGCATAATCTGTTAGA
AATATAAGACCGTCTGCCACGGAGTACTGGGTGATATGGAGGGATGATTTACACTGGAATCTTTTAC
TGGATATTGAGAGGAATGGAGCCGTGGACTCTGAAACATAAAGGTTCTGACTTTGAAACGGCTCAAGCCA
GCCAAGGATTGCACACCTATTGAGTATCCAAAACCCGATGGACAGATCAGTTTTGACCTCTTGTCTCT
GTGGCTCTGAGTGGTACTAATCATGAACATGACCAGCCGGCACACTTAACCTTAAGGGATGACAGTATA
CCTGTAATAGAAATCTGTCGATATATGATGGGCCGAGCAGCGATTCTGCTCCTGCAGGAGTTTATGAA
TTTGTACCTGTGGAACAAGGTGATGGATTTTCGGTTACAGATAAATGCTCAGAAGTGTGTACATTGAAA
ACATGTGATATTAAGATCCAAGTCAGAATATTAAGTGGTGGTACCTGAAGGTGGAGGAGACCTGCT
TACAATGGAATG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
  
```

**Protein Sequence:**

>Peptide sequence encoded by RG238883  
 Blue=ORF Red=Cloning site Green=Tag(s)

```

MERFAEEADVIVGAGPAGLSAAVRLKQLAVAHEKDIRVCLVEKAAQIGAHTLSGACLDPGAFKELFPD
WKEKGAPLNTPTVEDRFILTEKYRIPVPIPLPGLPMNHNHNYIVRLGHLVSWMGEQAEALGVEVYPGYA
AAEVLFHDDGSVKGIATNDVGIQKDGAPKATFERGLELHAKVTIFAEGCHGLAKQLYKFDLRANCEP
QTYGIGLKELWVDEKNWPKGRVDHTVWPLDRHTYGGSFYHLNEGEPLVALGLVVGLDYQNPYLSPF
REFQRWKHHPSIRPTLEGGKRIAYGARALNEGGFQSIPKLTFFPGLLIGCSPGFMMNPKIKGHTAMKS
GILAAESIFNQLTSENLSKTIHLHVTEYEDNLKNSWVWVWVWVWVWVWVWVWVWVWVWVWVWVWVW
WILRGMEPWTLKHKGSDFERLKPDKDCTPIEYKPDGQISFDLLSSVALSGTNHEHDQPAHLTLRDDSI
PVNRNLSIYDGPQRFPCAGVYEFVPEVQDGFRLQINAQNCVHCKTCDIKDPSQINWVVEGGGGPA
YNGM
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
MGYGFYHFGTYPYSGYENPFLHAINNGGYNTRIEKYEDGGVLHVFSYRYEAGRVIGDFKVMGTGFPEP
SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSDHMHFKSAIHPSILQNGGPMFA
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```

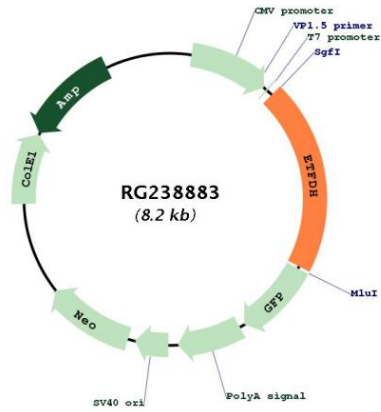
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


- ACCN:** NM\_001281738
- ORF Size:** 1668 bp
- OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)
- OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
- Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
- RefSeq:** [NM\\_001281738.1](#), [NP\\_001268667.1](#)
- RefSeq Size:** 1952 bp
- RefSeq ORF:** 1671 bp
- Locus ID:** 2110
- Cytogenetics:** 4q32.1
- MW:** 61.8 kDa
- Gene Summary:** This gene encodes a component of the electron-transfer system in mitochondria and is essential for electron transfer from a number of mitochondrial flavin-containing dehydrogenases to the main respiratory chain. Mutations in this gene are associated with glutaric acidemia. Alternatively spliced transcript variants that encode distinct isoforms have been observed. [provided by RefSeq, Aug 2013]

Product images:



Circular map for RG238883